

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13294

Motor for 30 K.W. generator

Received at London Office

Date of writing Report 21st Oct. 1941 When handed in at Local Office 19 Port of Lithuania

No. in Survey held at LYSEKIL Date, First Survey 24 Oct. Last Survey ✓ 19 41

Reg. Book. Single on the Twin Triple Quadruple Screw vessel

Tons $\left\{ \begin{array}{l} \text{Gross} \\ \text{Net} \end{array} \right.$

Built at STOCKHOLM By whom built A.B. EKENSBETEGS VARV Yard No. - When built -

Owners - Port belonging to -

Oil Engines made at LYSEKIL By whom made SKANDIA-VERKEN A.B. Contract No. 221039 When made 1941

Generators made at - By whom made - Contract No. - When made -

No. of Sets 1 Engine Brake Horse Power 50 Nom. Horse Power as per Rule 17 Total Capacity of Generators 50 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine 2 or 4 stroke cycle 250 Single or double acting 57

Maximum pressure in cylinders 20 kg/cm² Diameter of cylinders 190 mm Length of stroke 180 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 472 Is there a bearing between each crank ✓

Revolutions per minute 800 Flywheel dia. 800 mm Weight 260 kg. Means of ignition hot bulb. Kind of fuel used heavy oil

Crank Shaft, dia. of journals Approved 90 mm Crank pin dia. 90 mm Crank Webs Mid. length breadth 124 mm Thickness parallel to axis -
as fitted 90 mm Mid. length thickness 48 mm shrunk Thickness around eyehole -

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 18 mm
as fitted - as fitted -

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled

Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size One adjustable automatic lubricator

Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate Best attached

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Steam & soda

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Starting Air Receivers, No. One Total cubic capacity 20 lit. Internal diameter 200 mm thickness 6 mm

Seamless, lap welded or riveted longitudinal joint Welded Material st. steel Range of tensile strength 45-55 kg/cm² Working pressure by Rules 45 kg/cm²

ELECTRIC GENERATORS:—Type -

Pressure of supply - volts. Full Load Current - Amperes. Direct or Alternating Current -

If alternating current system, state the periodicity - Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off -

Generators, are they compounded as per rule - is an adjustable regulating resistance fitted in series with each shunt field -

Are all terminals accessible, clearly marked, and furnished with sockets -

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched - Are the lubricating arrangements of the generators as per Rule -

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test - and do the results comply with the requirements -

If the generators are 100 kw. or over have they been built and tested under survey -

PLANS. Are approved plans forwarded herewith for Shafting 20.7.41Receivers 9.7.40Separate Tanks -SPARE GEAR As per Rule supplied

✓ No air receivers fitted.

The foregoing is a correct description.

Fredrik Andersson

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 20.10.41
{ During erection on board vessel - - - }
Total No. of visits

Dates of Examination of principal parts—Cylinders 20.10.41 Covers 20.10.41 Pistons 20.10.41 Piston rods —

Connecting rods 20.10.41 Crank and Flywheel shafts 13/8 & 20/10 41 Intermediate shafts —

Crank and Flywheel shafts, Material S.S. steel Identification Marks LLOYD'S
NE 957
31.13.8.41

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers NE 682
LLOYD'S TEST 40 Hg.
W.P. 20.11.41.
J.P. 20.9.41

Is this machinery duplicate of a previous case — If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been built under Special Survey and all the requirements of the Rules have been complied with. The shafting as per forging report attached. The workmanship is good and the material fulfils the requirements of the Rules. The dimensions are as specified and in accordance with the Rules and approved plans. The engine has been tested under full working power on the test bed and found to work satisfactorily.

The amount of Fee ... 26s. 54.00 When applied for, 19.....
Travelling Expenses (if any) 26s. 17.00 When received, 19.....

Committee's Minute

Assigned

Stan Jansson
Surveyor to Lloyd's Register of Shipping.



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